

## STIC Biotechnology Systems Branch

### RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/534,742  
Source: PT/10  
Date Processed by STIC: 5/20/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05



PCT

## RAW SEQUENCE LISTING

DATE: 05/20/2005

PATENT APPLICATION: US/10/534,742

TIME: 12:13:02

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05202005\J534742.raw

low

3 <110> APPLICANT: Corrado FOGHER

5 <120> TITLE OF INVENTION: Food flours with specific technological characteristics and

6 allergenicity

8 <130> FILE REFERENCE: 4161-12 / BW330R

C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/534,742

11 <141> CURRENT FILING DATE: 2005-05-12

13 <150> PRIOR APPLICATION NUMBER: PCT/IB2003/005092

14 <151> PRIOR FILING DATE: 2003-11-12

16 <150> PRIOR APPLICATION NUMBER: IT BO2002A000714

17 <151> PRIOR FILING DATE: 2002-11-13

19 <160> NUMBER OF SEQ ID NOS: 44

21 <170> SOFTWARE: MS Word

*pg 1, 3, 5, 8, 10, 12, 14, 16, 18-19, 21*

## ERRORED SEQUENCES

23 <210> SEQ ID NO: 1

24 <211> LENGTH: 830

25 <212> TYPE: PRT

26 <213> ORGANISM: Wheat

28 <223> OTHER INFORMATION: Ax1

OK> 30 <400> SEQUENCE: 1

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35 Ala Leu Thr Ala Ala Glu Gly Glu Ala Ser Gly Gln Leu Gln Cys Glu	
36 20 25 30	
38 Arg Glu Leu Gln Glu His Ser Leu Lys Ala Cys Arg Gln Val Val Asp	
39 35 40 45	
41 Gln Gln Leu Arg Asp Val Ser Pro Glu Cys Gln Pro Val Gly Gly Gly	
42 50 55 60	
44 Pro Val Ala Arg Gln Tyr Glu Gln Gln Val Val Val Pro Pro Lys Gly	
45 65 70 75 80	
47 Gly Ser Phe Tyr Pro Gly Glu Thr Thr Pro Pro Gln Gln Leu Gln Gln	
48 85 90 95	
50 Ser Ile Leu Trp Gly Ile Pro Ala Leu Leu Arg Arg Tyr Tyr Leu Ser	
51 100 105 110	
53 Val Thr Ser Pro Gln Gln Val Ser Tyr Tyr Pro Gly Gln Ala Ser Ser	
54 115 120 125	
56 Gln Arg Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Glu Tyr	
57 130 135 140	
59 Tyr Leu Thr Ser Pro Gln Gln Ser Gly Gln Trp Gln Gln Pro Gly Gln	
60 145 150 155 160	
62 Gly Gln Ala Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Glu	

**Does Not Comply  
Corrected Diskette Needed**

*This numeric identifier is mandatory*

*wherever <221>*

*<222> or <223>*

*is present.*

*(See 1.823 of  
Sequence Rules.)*

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66				180					185					190		
68	Gln	Pro	Thr	Gln	Gly	Gln	Gln	Arg	Gln	Gln	Pro	Gly	Gln	Gly	Gln	Gln
69				195				200					205			
71	Leu	Arg	Gln	Gly	Gln	Gln	Gly	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Pro	Arg
72		210					215					220				
74	Tyr	Tyr	Pro	Thr	Ser	Ser	Gln	Gln	Pro	Gly	Gln	Leu	Gln	Gln	Leu	Ala
75	225					230				235					240	
77	Gln	Gly	Gln	Gln	Gly	Gln	Gln	Pro	Glu	Arg	Gly	Gln	Gln	Gly	Gln	Gln
78				245					250					255		
80	Ser	Gly	Gln	Gly	Gln	Gln	Leu	Gly	Gln	Gly	Gln	Gln	Gly	Gln	Gln	Pro
81				260					265					270		
83	Gly	Gln	Lys	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Gln	Gly	Tyr	Tyr	Pro	Ile
84			275					280					285			
86	Ser	Pro	Gln	Gln	Leu	Gly	Gln	Gly	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Leu
87		290					295					300				
89	Gly	Tyr	Tyr	Pro	Thr	Ser	Pro	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Ser	Gly
90	305					310					315				320	
92	Tyr	Tyr	Pro	Thr	Ser	Ala	Gln	Gln	Pro	Gly	Gln	Leu	Gln	Gln	Ser	Thr
93					325					330					335	
95	Gln	Glu	Gln	Gln	Leu	Gly	Gln	Glu	Gln	Gln	Asp	Gln	Gln	Ser	Gly	Gln
96				340					345					350		
98	Gly	Arg	Gln	Gly	Gln	Gln	Ser	Gly	Gln	Arg	Gln	Gln	Asp	Gln	Gln	Ser
99			355					360					365			
101	Gly	Gln	Gly	Gln	Gln	Pro	Gly	Gln	Arg	Gln	Pro	Gly	Tyr	Tyr	Ser	Thr
102		370						375					380			
104	Ser	Pro	Gln	Gln	Leu	Gly	Gln	Gly	Gln	Pro	Arg	Tyr	Tyr	Pro	Thr	Ser
105	385					390					395				400	
107	Pro	Gln	Gln	Pro	Gly	Gln	Glu	Gln	Gln	Pro	Arg	Gln	Leu	Gln	Gln	Pro
108					405					410					415	
110	Glu	Gln	Gly	Gln	Gln	Gly	Gln	Gln	Pro	Glu	Gln	Gly	Gln	Gln	Gly	Gln
111				420					425					430		
113	Gln	Pro	Gly	Gln	Gly	Glu	Gln	Gly	Gln	Gln	Pro	Gly	Gln	Gly	Gln	Gln
114			435					440					445			
116	Gly	Gln	Gln	Pro	Gly	Gln	Gly	Gln	Pro	Gly	Tyr	Tyr	Pro	Thr	Ser	Pro
117		450					455					460				
119	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Pro	Gly	Tyr	Tyr	Pro	Thr	Ser	Pro	Gln
120	465					470					475				480	
122	Gln	Ser	Gly	Gln	Leu	Gln	Gln	Pro	Ala	Gln	Gly	Gln	Gln	Pro	Gly	Gln
123				485					490					495		
125	Glu	Gln	Gln	Gly	Gln	Gln	Pro	Gly	Gln	Gly	Gln	Gln	Gly	Gln	Gln	Pro
126				500					505					510		
128	Gly	Gln	Gly	Gln	Gln	Pro	Gly	Gln	Gly	Gln	Pro	Gly	Tyr	Tyr	Pro	Thr
129			515					520					525			
131	Ser	Pro	Gln	Gln	Ser	Gly	Gln	Glu	Gln	Gln	Leu	Glu	Gln	Trp	Gln	Gln
132		530					535						540			
134	Ser	Gly	Gln	Gly	Gln	Pro	Gly	His	Tyr	Pro	Thr	Ser	Pro	Leu	Gln	Pro
135	545					550					555				560	

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137 Gly Gln Gly Gln Pro Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ile Gly
138          565          570          575
140 Gln Gly Gln Gln Pro Gly Gln Leu Gln Gln Pro Thr Gln Gly Gln Gln
141          580          585          590
143 Gly Gln Gln Pro Gly Gln Gly Gln Gln Gly Gln Gln Pro Gly Gln Gly
144          595          600          605
146 Gln Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln
147          610          615          620
149 Pro Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Ser Gly Gln Gly Gln Gln
150 625          630          635          640
152 Pro Gly Gln Trp Gln Gln Pro Gly Gln Gly Leu Pro Gly Tyr Tyr Pro
153          645          650          655
155 Thr Ser Ser Leu Gln Pro Glu Gln Gly Gln Gln Gly Tyr Tyr Pro Thr
156          660          665          670
158 Ser Gln Gln Gln Pro Gly Gln Gly Pro Gln Pro Gly Gln Trp Gln Gln
159          675          680          685
161 Ser Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser
162          690          695          700
164 Gly Gln Gly Gln Gln Pro Gly Gln Trp Leu Gln Pro Gly Gln Trp Leu
165 705          710          715          720
167 Gln Ser Gly Tyr Tyr Leu Thr Ser Pro Gln Gln Leu Gly Gln Gly Gln
168          725          730          735
170 Gln Pro Arg Gln Trp Leu Gln Pro Arg Gln Gly Gln Gln Gly Tyr Tyr
171          740          745          750
173 Pro Thr Ser Pro Gln Gln Ser Gly Gln Gly Gln Gln Leu Gly Gln Gly
174          755          760          765
176 Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Gly Gln
177          770          775          780
179 Gln Gly Tyr Asp Ser Pro Tyr His Val Ser Ala Glu His Gln Ala Ala
180 785          790          795          800
182 Ser Leu Lys Val Ala Lys Ala Gln Gln Leu Ala Ala Gln Leu Pro Ala
183          805          810          815
185 Met Cys Arg Leu Glu Gly Gly Asp Ala Leu Leu Ala Ser Gln
186          820          825          830
189 <210> SEQ ID NO: 2
190 <211> LENGTH: 815
191 <212> TYPE: PRT
192 <213> ORGANISM: Wheat
194 <223> OTHER INFORMATION: Ax2
196 <400> SEQUENCE: 2
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201 Ala Leu Thr Ala Ala Glu Gly Glu Ala Ser Gly Gln Leu Gln Cys Glu
202          20          25          30
204 Arg Glu Leu Gln Glu His Ser Leu Lys Ala Cys Arg Gln Val Val Asp
205          35          40          45
207 Gln Gln Leu Arg Asp Val Ser Pro Glu Cys Gln Pro Val Gly Gly Gly
208          50          55          60
210 Pro Val Ala Arg Gln Tyr Glu Gln Gln Val Val Val Pro Pro Lys Gly

```

*insert*  
 (2207)

OK&gt;

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

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Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05202005\J534742.raw

211	65					70						75				80
213	Gly	Ser	Phe	Tyr	Pro	Gly	Glu	Thr	Thr	Pro	Pro	Gln	Gln	Leu	Gln	Gln
214						85						90				95
216	Ser	Ile	Leu	Trp	Gly	Ile	Pro	Ala	Leu	Leu	Arg	Arg	Tyr	Tyr	Leu	Ser
217				100					105					110		
219	Val	Thr	Ser	Pro	Gln	Gln	Val	Ser	Tyr	Tyr	Pro	Gly	Gln	Ala	Ser	Ser
220				115					120					125		
222	Gln	Arg	Pro	Gly	Gln	Gly	Gln	Gln	Glu	Tyr	Tyr	Leu	Thr	Ser	Pro	Gln
223				130					135					140		
225	Gln	Ser	Gly	Gln	Trp	Gln	Gln	Pro	Gly	Gln	Gly	Gln	Ser	Gly	Tyr	Tyr
226	145					150						155				160
228	Pro	Thr	Ser	Pro	Gln	Gln	Ser	Gly	Gln	Lys	Gln	Pro	Gly	Tyr	Tyr	Pro
229					165					170						175
231	Thr	Ser	Pro	Trp	Gln	Pro	Glu	Gln	Leu	Gln	Gln	Pro	Thr	Gln	Gly	Gln
232				180						185					190	
234	Gln	Arg	Gln	Gln	Pro	Gly	Gln	Gly	Gln	Gln	Leu	Arg	Gln	Gly	Gln	Gln
235				195					200					205		
237	Gly	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Pro	Arg	Tyr	Tyr	Pro	Thr	Ser	Ser
238		210					215						220			
240	Gln	Gln	Pro	Gly	Gln	Leu	Gln	Gln	Leu	Ala	Gln	Gly	Gln	Gln	Gly	Gln
241	225					230						235				240
243	Gln	Pro	Glu	Arg	Gly	Gln	Gln	Gly	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Gln
244					245						250					255
246	Leu	Gly	Gln	Gly	Gln	Gln	Gly	Gln	Gln	Pro	Gly	Gln	Lys	Gln	Gln	Ser
247				260						265					270	
249	Gly	Gln	Gly	Gln	Gln	Gly	Tyr	Tyr	Pro	Ile	Ser	Pro	Gln	Gln	Leu	Gly
250				275					280					285		
252	Gln	Gly	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Leu	Gly	Tyr	Tyr	Pro	Thr	Ser
253		290					295					300				
255	Pro	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Ser	Gly	Tyr	Tyr	Pro	Thr	Ser	Ala
256	305					310						315				320
258	Gln	Gln	Pro	Gly	Gln	Leu	Gln	Gln	Ser	Thr	Gln	Glu	Gln	Gln	Leu	Gly
259					325					330					335	
261	Gln	Glu	Gln	Gln	Asp	Gln	Gln	Ser	Gly	Gln	Gly	Arg	Gln	Gly	Gln	Gln
262				340						345					350	
264	Ser	Gly	Gln	Arg	Gln	Gln	Asp	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Gln	Pro
265				355						360					365	
267	Gly	Gln	Arg	Gln	Pro	Gly	Tyr	Tyr	Ser	Thr	Ser	Pro	Gln	Gln	Leu	Gly
268		370					375						380			
270	Gln	Gly	Gln	Pro	Arg	Tyr	Tyr	Pro	Thr	Ser	Pro	Gln	Gln	Pro	Gly	Gln
271	385					390						395				400
273	Glu	Gln	Gln	Pro	Arg	Gln	Leu	Gln	Gln	Pro	Glu	Gln	Gly	Gln	Gln	Gly
274					405						410					415
276	Gln	Gln	Pro	Glu	Gln	Gly	Gln	Gln	Gly	Gln	Gln	Gln	Arg	Gln	Gly	Glu
277				420						425					430	
279	Gln	Gly	Gln	Gln	Pro	Gly	Gln	Gly	Gln	Gln	Gly	Gln	Gln	Pro	Gly	Gln
280				435						440					445	
282	Gly	Gln	Pro	Gly	Tyr	Tyr	Pro	Thr	Ser	Pro	Gln	Gln	Ser	Gly	Gln	Gly
283		450						455						460		

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285 Gln Pro Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Leu Gln
286 465                               470                               475                               480
288 Gln Pro Ala Gln Gly Gln Gln Pro Gly Gln Glu Gln Gln Gly Gln Gln
289                               485                               490                               495
291 Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Pro Gly Tyr Tyr Pro
292                               500                               505                               510
294 Thr Ser Pro Gln Gln Ser Gly Gln Glu Gln Gln Leu Glu Gln Trp Gln
295                               515                               520                               525
297 Gln Ser Gly Gln Gly Gln Pro Gly His Tyr Pro Thr Ser Pro Leu Gln
298                               530                               535                               540
300 Pro Gly Gln Gly Gln Pro Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ile
301 545                               550                               555                               560
303 Gly Gln Gly Gln Gln Pro Gly Gln Leu Gln Gln Pro Thr Gln Gly Gln
304                               565                               570                               575
306 Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Gly Gln Gln Pro Gly Glu
307                               580                               585                               590
309 Gly Gln Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly
310                               595                               600                               605
312 Gln Pro Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Ser Gly Gln Gly Gln
313                               610                               615                               620
315 Gln Pro Gly Gln Trp Gln Gln Pro Gly Gln Gly Gln Pro Gly Tyr Tyr
316 625                               630                               635                               640
318 Pro Thr Ser Ser Leu Gln Pro Glu Gln Gly Gln Gln Gly Tyr Tyr Pro
319                               645                               650                               655
321 Thr Ser Gln Gln Gln Pro Gly Gln Gly Pro Gln Pro Gly Gln Trp Gln
322                               660                               665                               670
324 Gln Ser Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln
325                               675                               680                               685
327 Ser Gly Gln Gly Gln Gln Pro Gly Gln Trp Leu Gln Pro Gly Gln Trp
328                               690                               695                               700
330 Leu Gln Ser Gly Tyr Tyr Leu Thr Ser Pro Gln Gln Leu Gly Gln Gly
331 705                               710                               715                               720
333 Gln Gln Pro Arg Gln Trp Leu Gln Pro Arg Gln Gly Gln Gln Gly Tyr
334                               725                               730                               735
336 Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Gly Gln Gln Leu Gly Gln
337                               740                               745                               750
339 Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Gly
340                               755                               760                               765
342 Gln Gln Gly Tyr Asp Ser Pro Tyr His Val Ser Ala Glu His Gln Ala
343                               770                               775                               780
345 Ala Ser Leu Lys Val Ala Lys Ala Gln Gln Leu Ala Ala Gln Leu Pro
346 785                               790                               795                               800
348 Ala Met Cys Arg Leu Glu Gly Gly Asp Ala Leu Leu Ala Ser Gln
349                               805                               810                               815
352 <210> SEQ ID NO: 3
353 <211> LENGTH: 839
354 <212> TYPE: PRT
355 <213> ORGANISM: Wheat
357 <223> OTHER INFORMATION: Dx5

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*Insert 2207*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

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Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05202005\J534742.raw

E--&gt; 359 &lt;400&gt; SEQUENCE: 3

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361 Met Ala Lys Arg Leu Val Leu Phe Val Ala Val Val Val Ala Leu Val
362 1 5 10 15
364 Ala Leu Thr Val Ala Glu Gly Glu Ala Ser Glu Gln Leu Gln Cys Glu
365 20 25 30
367 Arg Glu Leu Gln Glu Leu Gln Glu Arg Glu Leu Lys Ala Cys Gln Gln
368 35 40 45
370 Val Met Asp Gln Gln Leu Arg Asp Ile Ser Pro Glu Cys His Pro Val
371 50 55 60
373 Val Val Ser Pro Val Ala Gly Gln Tyr Glu Gln Gln Ile Val Val Pro
374 65 70 75 80
376 Pro Lys Gly Gly Ser Phe Tyr Pro Gly Glu Thr Thr Pro Pro Gln Gln
377 85 90 95
379 Leu Gln Gln Arg Ile Phe Trp Gly Ile Pro Ala Leu Leu Lys Arg Tyr
380 100 105 110
382 Tyr Pro Ser Val Thr Cys Pro Gln Gln Val Ser Tyr Tyr Pro Gly Gln
383 115 120 125
385 Ala Ser Pro Gln Arg Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln
386 130 135 140
388 Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Pro Gly Gln Trp Gln Gln
389 145 150 155 160
391 Pro Glu Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Pro
392 165 170 175
394 Gly Gln Leu Gln Gln Pro Ala Gln Gly Gln Gln Pro Gly Gln Gly Gln
395 180 185 190
397 Gln Gly Gln Gln Pro Gly Gln Gly Gln Pro Gly Tyr Tyr Pro Thr Ser
398 195 200 205
400 Ser Gln Leu Gln Pro Gly Gln Leu Gln Gln Pro Ala Gln Gly Gln Gln
401 210 215 220
403 Gly Gln Gln Pro Gly Gln Ala Gln Gln Gly Gln Gln Pro Gly Gln Gly
404 225 230 235 240
406 Gln Gln Pro Gly Gln Gly Gln Gln Gly Gln Gln Pro Gly Gln Gly Gln
407 245 250 255
409 Gln Pro Gly Gln Gly Gln Gln Gly Gln Gln Leu Gly Gln Gly Gln Gln
410 260 265 270
412 Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Ser Gly Gln Gly Gln Pro Gly
413 275 280 285
415 Tyr Tyr Pro Thr Ser Leu Gln Gln Leu Gly Gln Gly Gln Ser Gly Tyr
416 290 295 300
418 Tyr Pro Thr Ser Pro Gln Gln Pro Gly Gln Gly Gln Gln Pro Gly Gln
419 305 310 315 320
421 Leu Gln Gln Pro Ala Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Gly
422 325 330 335
424 Gln Gln Pro Gly Gln Gly Gln Gln Gly Gln Gln Pro Gly Gln Gly Gln
425 340 345 350
427 Gln Pro Gly Gln Gly Gln Pro Gly Tyr Tyr Pro Thr Ser Pro Gln Gln
428 355 360 365
430 Ser Gly Gln Gly Gln Pro Gly Tyr Tyr Pro Thr Ser Ser Gln Gln Pro
431 370 375 380

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433 Thr Gln Ser Gln Gln Pro Gly Gln Gly Gln Gln Gly Gln Gln Val Gly
434 385 390 395 400
436 Gln Gly Gln Gln Ala Gln Gln Pro Gly Gln Gly Gln Gln Pro Gly Gln
437 405 410 415
439 Gly Gln Pro Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Gly
440 420 425 430
442 Gln Pro Gly Tyr Tyr Leu Thr Ser Pro Gln Gln Ser Gly Gln Gly Gln
443 435 440 445
445 Gln Pro Gly Gln Leu Gln Gln Ser Ala Gln Gly Gln Lys Gly Gln Gln
446 450 455 460
448 Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Gly Gln Gln Pro
449 465 470 475 480
451 Gly Gln Gly Gln Gln Gly Gln Gln Pro Gly Gln Gly Gln Pro Gly Tyr
452 485 490 495
454 Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Gly Gln Gln Pro Gly Gln
455 500 505 510
457 Trp Gln Gln Pro Gly Gln Gly Gln Pro Gly Tyr Tyr Pro Thr Ser Pro
458 515 520 525
460 Leu Gln Pro Gly Gln Gly Gln Pro Gly Tyr Asp Pro Thr Ser Pro Gln
461 530 535 540
463 Gln Pro Gly Gln Gly Gln Gln Pro Gly Gln Leu Gln Gln Pro Ala Gln
464 545 550 555 560
466 Gly Gln Gln Gly Gln Gln Leu Ala Gln Gly Gln Gln Gly Gln Gln Pro
467 565 570 575
469 Ala Gln Val Gln Gln Gly Gln Gln Pro Ala Gln Gly Gln Gln Gly Gln
470 580 585 590
472 Gln Leu Gly Gln Gly Gln Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln
473 595 600 605
475 Gly Gln Gln Pro Ala Gln Gly Gln Gln Gly Gln Gln Pro Gly Gln Gly
476 610 615 620
478 Gln His Gly Gln Gln Pro Gly Gln Gly Gln Gln Gly Gln Gln Pro Gly
479 625 630 635 640
481 Gln Gly Gln Gln Pro Gly Gln Gly Gln Pro Trp Tyr Tyr Pro Thr Ser
482 645 650 655
484 Pro Gln Glu Ser Gly Gln Gly Gln Gln Pro Gly Gln Trp Gln Gln Pro
485 660 665 670
487 Gly Gln Gly Gln Pro Gly Tyr Tyr Leu Thr Phe Ser Val Ala Ala Arg
488 675 680 685
490 Thr Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln
491 690 695 700
493 Gly Gln Gln Pro Gly Gln Trp Gln Gln Ser Gly Gln Gly Gln His Trp
494 705 710 715 720
496 Tyr Tyr Pro Thr Ser Pro Lys Leu Ser Gly Gln Gly Gln Arg Pro Gly
497 725 730 735
499 Gln Trp Leu Gln Pro Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser
500 740 745 750
502 Pro Gln Gln Pro Pro Gln Gly Gln Gln Leu Gly Gln Trp Leu Gln Pro
503 755 760 765
505 Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Thr Gly

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506            770                            775                            780  
 508 Gln Gly Gln Gln Ser Gly Gln Gly Gln Gln Gly Tyr Tyr Ser Ser Tyr  
 509 785                            790                            795                            800  
 511 His Val Ser Val Glu His Gln Ala Ala Ser Leu Lys Val Ala Lys Ala  
 512                            805                            810                            815  
 514 Gln Gln Leu Ala Ala Gln Leu Pro Ala Met Cys Arg Leu Glu Gly Gly  
 515                            820                            825                            830  
 517 Asp Ala Leu Ser Ala Ser Gln  
 518                            835  
 521 <210> SEQ ID NO: 4  
 522 <211> LENGTH: 838  
 523 <212> TYPE: PRT  
 524 <213> ORGANISM: Wheat  
 526 <223> OTHER INFORMATION: HMW2  
 E--> 528 <400> SEQUENCE: 4  
 530 Met Ala Lys Arg Leu Val Leu Phe Val Ala Val Val Val Ala Leu Val  
 531 1                            5                            10                            15  
 533 Ala Leu Thr Val Ala Glu Gly Glu Ala Ser Glu Gln Leu Gln Cys Glu  
 534                            20                            25                            30  
 536 Arg Glu Leu Gln Glu Leu Gln Glu Arg Glu Leu Lys Ala Cys Gln Gln  
 537                            35                            40                            45  
 539 Val Met Asp Gln Gln Leu Arg Asp Ile Ser Pro Glu Cys His Pro Val  
 540                            50                            55                            60  
 542 Val Val Ser Pro Val Ala Gly Gln Tyr Glu Gln Gln Ile Val Val Pro  
 543 65                            70                            75                            80  
 545 Lys Gly Gly Ser Phe Tyr Pro Gly Glu Thr Thr Pro Pro Gln Gln Leu  
 546                            85                            90                            95  
 548 Gln Gln Arg Ile Phe Trp Gly Ile Pro Ala Leu Leu Lys Arg Tyr Tyr  
 549                            100                            105                            110  
 551 Pro Ser Val Thr Ser Pro Gln Gln Val Ser Tyr Tyr Pro Gly Gln Ala  
 552                            115                            120                            125  
 554 Ser Pro Gln Arg Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln  
 555                            130                            135                            140  
 557 Ser Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Pro  
 558 145                            150                            155                            160  
 560 Gly Gln Trp Gln Gln Pro Glu Gln Gly Gln Pro Gly Tyr Tyr Pro Thr  
 561                            165                            170                            175  
 563 Ser Pro Gln Gln Pro Gly Gln Leu Gln Gln Pro Ala Gln Gly Gln Gln  
 564                            180                            185                            190  
 566 Pro Gly Gln Gly Gln Gln Gly Arg Gln Pro Gly Gln Gly Gln Pro Gly  
 567                            195                            200                            205  
 569 Tyr Tyr Pro Thr Ser Ser Gln Leu Gln Pro Gly Gln Leu Gln Gln Pro  
 570                            210                            215                            220  
 572 Ala Gln Gly Gln Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Gly Gln  
 573 225                            230                            235                            240  
 575 Gln Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Gly Gln Gln  
 576                            245                            250                            255  
 578 Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Gly Gln Leu  
 579                            260                            265                            270

*insert <220>*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005

TIME: 12:13:02

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05202005\J534742.raw

```

581 Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Ser Gly
582          275          280          285
584 Gln Gly Gln Pro Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Leu Gly Gln
585      290          295          300
587 Gly Gln Ser Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Pro Gly Gln Gly
588 305          310          315          320
590 Gln Gln Pro Gly Gln Leu Gln Gln Pro Ala Gln Gly Gln Gln Pro Glu
591          325          330          335
593 Gln Gly Gln Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Gly Gln Gln
594          340          345          350
596 Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Pro Gly Tyr Tyr Pro
597          355          360          365
599 Thr Ser Pro Gln Gln Ser Gly Gln Gly Gln Pro Gly Tyr Tyr Pro Thr
600      370          375          380
602 Ser Ser Gln Gln Pro Thr Gln Ser Gln Gln Pro Gly Gln Gly Gln Gln
603 385          390          395          400
605 Gly Gln Gln Val Gly Gln Gly Gln Gln Ala Gln Gln Pro Gly Gln Gly
606          405          410          415
608 Gln Gln Pro Gly Gln Gly Gln Pro Gly Tyr Tyr Pro Thr Ser Pro Leu
609          420          425          430
611 Gln Ser Gly Gln Gly Gln Pro Gly Tyr Tyr Leu Thr Ser Pro Gln Gln
612          435          440          445
614 Ser Gly Gln Gly Gln Gln Pro Gly Gln Leu Gln Gln Ser Ala Gln Gly
615      450          455          460
617 Gln Lys Gly Gln Gln Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln
618 465          470          475          480
620 Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Gly Gln Gln Pro Gly Gln
621          485          490          495
623 Gly Gln Pro Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Gly
624          500          505          510
626 Gln Gln Pro Gly Gln Trp Gln Gln Pro Gly Gln Gly Gln Pro Gly Tyr
627      515          520          525
629 Tyr Pro Thr Ser Pro Leu Gln Pro Gly Gln Gly Gln Pro Gly Tyr Asp
630      530          535          540
632 Pro Thr Ser Pro Gln Gln Pro Gly Gln Gly Gln Gln Pro Gly Gln Leu
633 545          550          555          560
635 Gln Gln Pro Ala Gln Gly Gln Gln Gly Gln Gln Leu Ala Gln Gly Gln
636          565          570          575
638 Gln Gly Gln Gln Pro Ala Gln Val Gln Gln Gly Gln Gln Pro Ala Gln
639          580          585          590
641 Gly Gln Gln Gly Gln Gln Leu Gly Gln Gly Gln Gln Gly Gln Gln Pro
642          595          600          605
644 Gly Gln Gly Gln Gln Pro Ala Gln Gly Gln Gln Gly Gln Gln Pro Gly
645      610          615          620
647 Gln Gly Gln Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Pro Gly Gln
648 625          630          635          640
650 Gly Gln Pro Trp Tyr Tyr Pro Thr Ser Pro Gln Glu Ser Gly Gln Gly
651          645          650          655
653 Gln Gln Pro Gly Gln Trp Gln Gln Pro Gly Gln Trp Gln Gln Pro Gly

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005

TIME: 12:13:02

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05202005\J534742.raw

```

654          660          665          670
656 Gln Gly Gln Pro Gly Tyr Tyr Leu Thr Ser Pro Leu Gln Leu Gly Gln
657          675          680          685
659 Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln Gly
660          690          695          700
662 Gln Gln Pro Gly Gln Trp Gln Gln Ser Gly Gln Gly Gln His Gly Tyr
663 705          710          715          720
665 Tyr Pro Thr Ser Pro Gln Leu Ser Gly Gln Gly Gln Arg Pro Gly Gln
666          725          730          735
668 Trp Leu Gln Pro Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro
669          740          745          750
671 Gln Gln Ser Gly Gln Gly Gln Gln Leu Gly Gln Trp Leu Gln Pro Gly
672          755          760          765
674 Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Thr Gly Gln
675          770          775          780
677 Gly Gln Gln Ser Gly Gln Gly Gln Gln Gly Tyr Tyr Ser Ser Tyr His
678 785          790          795          800
680 Val Ser Val Glu His Gln Ala Ala Ser Leu Lys Val Ala Lys Ala Gln
681          805          810          815
683 Gln Leu Ala Ala Gln Leu Pro Ala Met Cys Arg Leu Glu Gly Gly Asp
684          820          825          830
686 Ala Leu Ser Ala Ser Gln
687          835

```

690 &lt;210&gt; SEQ ID NO: 5

691 &lt;211&gt; LENGTH: 789

692 &lt;212&gt; TYPE: PRT

693 &lt;213&gt; ORGANISM: Wheat

695 &lt;223&gt; OTHER INFORMATION: Bx7

E--&gt; 697 &lt;400&gt; SEQUENCE: 5

```

699 Met Ala Lys Arg Leu Val Leu Phe Ala Ala Val Val Val Ala Leu Val
700 1          5          10          15
702 Ala Leu Thr Ala Ala Glu Gly Glu Ala Ser Gly Gln Leu Gln Cys Glu
703          20          25          30
705 His Glu Leu Glu Ala Cys Gln Gln Val Val Asp Gln Gln Leu Arg Asp
706          35          40          45
708 Val Ser Pro Gly Cys Arg Pro Ile Thr Val Ser Pro Gly Thr Arg Gln
709          50          55          60
711 Tyr Glu Gln Gln Pro Val Val Pro Ser Lys Ala Gly Ser Phe Tyr Pro
712 65          70          75          80
714 Ser Glu Thr Thr Pro Ser Gln Gln Leu Gln Gln Met Ile Phe Trp Gly
715          85          90          95
717 Ile Pro Ala Leu Leu Arg Arg Tyr Tyr Pro Ser Val Thr Ser Ser Gln
718          100          105          110
720 Gln Gly Ser Tyr Tyr Pro Gly Gln Ala Ser Pro Gln Gln Ser Gly Gln
721          115          120          125
723 Gly Gln Gln Pro Gly Gln Glu Gln Gln Pro Gly Gln Gly Gln Gln Asp
724          130          135          140
726 Gln Gln Pro Gly Gln Arg Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln
727 145          150          155          160

```

*insert <220>*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005

TIME: 12:13:02

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05202005\J534742.raw

```

729 Gln Pro Gly Gln Gly Gln Gln Leu Gly Gln Gly Gln Pro Gly Tyr Tyr
730      165      170      175
732 Pro Thr Ser Gln Gln Pro Gly Gln Lys Gln Gln Ala Gly Gln Gly Gln
733      180      185      190
735 Gln Ser Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln
736      195      200      205
738 Ser Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Pro Gly Tyr Tyr Pro
739      210      215      220
741 Thr Ser Pro Gln Gln Ser Gly Gln Trp Gln Gln Pro Gly Gln Gly Gln
742 225      230      235      240
744 Gln Pro Gly Gln Gly Gln Gln Ser Gly Gln Gly Gln Gln Gly Gln Gln
745      245      250      255
747 Pro Gly Gln Gly Gln Arg Pro Gly Gln Gly Gln Gln Gly Tyr Tyr Pro
748      260      265      270
750 Ile Ser Pro Gln Gln Pro Gly Gln Gly Gln Gln Ser Gly Gln Gly Gln
751      275      280      285
753 Pro Gly Tyr Tyr Pro Thr Ser Leu Arg Gln Pro Gly Gln Trp Gln Gln
754      290      295      300
756 Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Gly Gln Gln Pro
757 305      310      315      320
759 Gly Gln Gly Gln Gln Ser Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr
760      325      330      335
762 Ser Leu Gln Gln Pro Gly Gln Gly Gln Gln Leu Gly Gln Gly Gln Pro
763      340      345      350
765 Gly Tyr Tyr Pro Thr Ser Gln Gln Ser Glu Gln Gly Gln Gln Pro Gly
766      355      360      365
768 Gln Gly Lys Gln Pro Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser
769      370      375      380
771 Pro Gln Gln Ser Gly Gln Gly Gln Gln Leu Gly Gln Gly Gln Pro Gly
772 385      390      395      400
774 Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Gly Gln Gln Ser Gly
775      405      410      415
777 Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln
778      420      425      430
780 Gly Gln Gln Pro Gly Gln Gly Gln Ser Gly Tyr Phe Pro Thr Ser Arg
781      435      440      445
783 Gln Gln Ser Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Ser Gly
784      450      455      460
786 Gln Gly Gln Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Ala Tyr Tyr
787 465      470      475      480
789 Pro Thr Ser Ser Gln Gln Ser Arg Gln Arg Gln Gln Ala Gly Gln Trp
790      485      490      495
792 Gln Arg Pro Gly Gln Gly Gln Pro Gly Tyr Tyr Pro Thr Ser Pro Gln
793      500      505      510
795 Gln Pro Gly Gln Glu Gln Gln Ser Gly Gln Ala Gln Gln Ser Gly Gln
796      515      520      525
798 Trp Gln Leu Val Tyr Tyr Pro Thr Ser Pro Gln Gln Pro Gly Gln Leu
799      530      535      540
801 Gln Gln Pro Ala Gln Gly Gln Gln Pro Ala Gln Gly Gln Gln Ser Ala

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005

TIME: 12:13:02

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05202005\J534742.raw

```

802 545          550          555          560
804 Gln Glu Gln Gln Pro Gly Gln Ala Gln Gln Ser Gly Gln Trp Gln Leu
805          565          570          575
807 Val Tyr Tyr Pro Thr Ser Pro Gln Gln Pro Gly Gln Leu Gln Gln Pro
808          580          585          590
810 Ala Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly
811          595          600          605
813 Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln
814          610          615          620
816 Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Gly
817 625          630          635          640
819 Gln Gln Pro Gly Gln Gly Gln Gln Pro Arg Gln Gly Gln Gln Gly Tyr
820          645          650          655
822 Tyr Pro Ile Ser Pro Gln Gln Ser Gly Gln Gly Gln Gln Pro Gly Gln
823          660          665          670
825 Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Gly
826          675          680          685
828 Gln Gln Pro Gly His Glu Gln Gln Pro Gly Gln Trp Leu Gln Pro Gly
829          690          695          700
831 Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Ser Gln Gln Ser Gly Gln
832 705          710          715          720
834 Gly His Gln Ser Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Leu
835          725          730          735
837 Trp Gln Pro Gly Gln Gly Gln Gln Gly Tyr Ala Ser Pro Tyr His Val
838          740          745          750
840 Ser Ala Glu Tyr Gln Ala Ala Arg Leu Lys Val Ala Lys Ala Gln Gln
841          755          760          765
843 Leu Ala Ala Gln Leu Pro Ala Met Cys Arg Leu Glu Gly Ser Asp Ala
844          770          775          780
846 Leu Ser Thr Arg Gln
847 785
850 <210> SEQ ID NO: 6
851 <211> LENGTH: 660
852 <212> TYPE: PRT
853 <213> ORGANISM: Wheat
855 <223> OTHER INFORMATION: Dyl2
E--> 857 <400> SEQUENCE: 6
859 Met Ala Lys Arg Leu Val Leu Phe Ala Ala Val Val Ile Ala Leu Val
860 1          5          10          15
862 Ala Leu Thr Thr Ala Glu Gly Glu Ala Ser Arg Gln Leu Gln Cys Glu
863          20          25          30
865 Arg Glu Leu Gln Glu Ser Ser Leu Glu Ala Cys Arg Gln Val Val Asp
866          35          40          45
868 Gln Gln Leu Ala Gly Arg Leu Pro Trp Ser Thr Gly Leu Gln Met Arg
869          50          55          60
871 Cys Cys Gln Gln Leu Arg Asp Val Ser Ala Lys Cys Arg Ser Val Ala
872 65          70          75          80
874 Val Ser Gln Val Ala Arg Gln Tyr Glu Gln Thr Val Val Pro Pro Lys
875          85          90          95

```

*insert <220>*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005

TIME: 12:13:02

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05202005\J534742.raw

```

877 Gly Gly Ser Phe Tyr Pro Gly Glu Thr Thr Pro Leu Gln Gln Leu Gln
878          100          105          110
880 Gln Gly Ile Phe Trp Gly Thr Ser Ser Gln Thr Val Gln Gly Tyr Tyr
881          115          120          125
883 Pro Ser Val Thr Ser Pro Arg Gln Gly Ser Tyr Tyr Pro Gly Gln Ala
884          130          135          140
886 Ser Pro Gln Gln Pro Gly Gln Gly Gln Gln Pro Gly Lys Trp Gln Glu
887 145          150          155          160
889 Pro Gly Gln Gly Gln Gln Trp Tyr Tyr Pro Thr Ser Leu Gln Gln Pro
890          165          170          175
892 Gly Gln Gly Gln Gln Ile Gly Lys Gly Lys Gln Gly Tyr Tyr Pro Thr
893          180          185          190
895 Ser Leu Gln Gln Pro Gly Gln Gly Gln Gln Ile Gly Gln Gly Gln Gln
896          195          200          205
898 Gly Tyr Tyr Pro Thr Ser Pro Gln His Thr Gly Gln Arg Gln Gln Pro
899          210          215          220
901 Val Gln Gly Gln Gln Ile Gly Gln Gly Gln Gln Pro Glu Gln Gly Gln
902 225          230          235          240
904 Gln Pro Gly Gln Trp Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln
905          245          250          255
907 Leu Gly Gln Gly Gln Gln Pro Gly Gln Trp Gln Gln Ser Gly Gln Gly
908          260          265          270
910 Gln Gln Gly His Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln Gly Gln
911          275          280          285
913 Gln Gly His Tyr Leu Ala Ser Gln Gln Gln Pro Ala Gln Gly Gln Gln
914          290          295          300
916 Gly His Tyr Pro Ala Ser Gln Gln Gln Pro Gly Gln Gly Gln Gln Gly
917 305          310          315          320
919 His Tyr Pro Ala Ser Gln Gln Gln Pro Gly Gln Gly Gln Gln Gly His
920          325          330          335
922 Tyr Pro Ala Ser Gln Gln Glu Pro Gly Gln Gly Gln Gln Gly Gln Ile
923          340          345          350
925 Pro Ala Ser Gln Gln Gln Pro Gly Gln Gly Gln Gln Gly His Tyr Pro
926          355          360          365
928 Ala Ser Leu Gln Gln Pro Gly Gln Gln Gly His Tyr Pro Thr Ser Leu
929          370          375          380
931 Gln Gln Leu Gly Gln Gly Gln Gln Ile Gly Gln Pro Gly Gln Lys Gln
932 385          390          395          400
934 Gln Pro Gly Gln Gly Gln Gln Thr Gly Gln Gly Gln Gln Pro Glu Gln
935          405          410          415
937 Glu Gln Gln Pro Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Leu
938          420          425          430
940 Gln Gln Pro Gly Gln Gly Gln Gln Gln Gly Gln Gly Gln Gln Gly Tyr
941          435          440          445
943 Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln Gly Gln Gln Gly His Tyr
944          450          455          460
946 Pro Ala Ser Leu Gln Gln Pro Gly Gln Gly Gln Gly Gln Pro Gly Gln
947 465          470          475          480
949 Arg Gln Gln Pro Gly Gln Gly Gln His Pro Glu Gln Gly Gln Gln Pro

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005

TIME: 12:13:02

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05202005\J534742.raw

```

950          485          490          495
952 Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Pro Gly
953          500          505          510
955 Gln Gly Gln Gln Leu Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser
956          515          520          525
958 Pro Gln Gln Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Gly
959          530          535          540
961 His Cys Pro Met Ser Pro Gln Gln Thr Gly Gln Ala Gln Gln Leu Gly
962 545          550          555          560
964 Gln Gly Gln Gln Ile Gly Gln Val Gln Gln Pro Gly Gln Gly Gln Gln
965          565          570          575
967 Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln Gly Gln Gln Ser
969          580          585          590
971 Gly Gln Gly Gln Gln Ser Gly Gln Gly His Gln Pro Gly Gln Gly Gln
972          595          600          605
974 Gln Ser Gly Gln Glu Lys Gln Gly Tyr Asp Ser Pro Tyr His Val Ser
975          610          615          620
977 Ala Glu Gln Gln Ala Ala Ser Pro Met Val Ala Lys Ala Gln Gln Pro
978 625          630          635          640
980 Ala Thr Gln Leu Pro Thr Val Cys Arg Met Glu Gly Gly Asp Ala Leu
981          645          650          655
983 Ser Ala Ser Gln
984          660
987 <210> SEQ ID NO: 7
988 <211> LENGTH: 648
989 <212> TYPE: PRT
990 <213> ORGANISM: Wheat
992 <223> OTHER INFORMATION: Dy10
E--> 994 <400> SEQUENCE: 7
996 Met Ala Lys Arg Leu Val Leu Phe Ala Ala Val Val Ile Ala Leu Val
997 1          5          10          15
999 Ala Leu Thr Thr Ala Glu Gly Glu Ala Ser Arg Gln Leu Gln Cys Glu
1000          20          25          30
1002 Arg Glu Leu Gln Glu Ser Ser Leu Glu Ala Cys Arg Gln Val Val Asp
1003          35          40          45
1005 Gln Gln Leu Ala Gly Arg Leu Pro Trp Ser Thr Gly Leu Gln Met Arg
1006          50          55          60
1008 Cys Cys Gln Gln Leu Arg Asp Val Ser Ala Lys Cys Arg Ser Val Ala
1009 65          70          75          80
1011 Val Ser Gln Val Ala Arg Gln Tyr Glu Gln Thr Val Val Pro Pro Lys
1012          85          90          95
1014 Gly Gly Ser Phe Tyr Pro Gly Glu Thr Thr Pro Leu Gln Gln Leu Gln
1015          100          105          110
1017 Gln Gly Ile Phe Trp Gly Thr Ser Ser Gln Thr Val Gln Gly Tyr Tyr
1018          115          120          125
1020 Pro Gly Val Thr Ser Pro Arg Gln Gly Ser Tyr Tyr Pro Gly Gln Ala
1021          130          135          140
1023 Ser Pro Gln Gln Pro Gly Gln Gly Gln Gln Pro Gly Lys Trp Gln Glu
1024 145          150          155          160

```

*insert <2207*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005

TIME: 12:13:02

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05202005\J534742.raw

```

1026 Pro Gly Gln Gly Gln Gln Trp Tyr Tyr Pro Thr Ser Leu Gln Gln Pro
1027                               165                               170                               175
1029 Gly Gln Gly Gln Gln Ile Gly Lys Gly Gln Gln Gly Tyr Tyr Pro Thr
1030                               180                               185                               190
1032 Ser Leu Gln Gln Pro Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser
1033                               195                               200                               205
1035 Leu Gln His Thr Gly Gln Arg Gln Gln Pro Val Gln Gly Gln Gln Pro
1036                               210                               215                               220
1038 Glu Gln Gly Gln Gln Pro Gly Gln Trp Gln Gln Gly Tyr Tyr Pro Thr
1039 225                               230                               235                               240
1041 Ser Pro Gln Gln Leu Gly Gln Gly Gln Gln Pro Arg Gln Trp Gln Gln
1042                               245                               250                               255
1044 Ser Gly Gln Gly Gln Gln Gly His Tyr Pro Thr Ser Leu Gln Gln Pro
1045                               260                               265                               270
1047 Gly Gln Gly Gln Gln Gly His Tyr Leu Ala Ser Gln Gln Gln Pro Gly
1048                               275                               280                               285
1050 Gln Gly Gln Gln Gly His Tyr Pro Ala Ser Gln Gln Gln Pro Gly Gln
1051                               290                               295                               300
1053 Gly Gln Gln Gly His Tyr Pro Ala Ser Gln Gln Gln Pro Gly Gln Gly
1054 305                               310                               315                               320
1056 Gln Gln Gly His Tyr Pro Ala Ser Gln Gln Glu Pro Gly Gln Gly Gln
1057                               325                               330                               335
1059 Gln Gly Gln Ile Pro Ala Ser Gln Gln Gln Pro Gly Gln Gly Gln Gln
1060                               340                               345                               350
1062 Gly His Tyr Pro Ala Ser Leu Gln Gln Pro Gly Gln Gly Gln Gln Gly
1063                               355                               360                               365
1065 His Tyr Pro Thr Ser Leu Gln Gln Leu Gly Gln Gly Gln Gln Thr Gly
1066                               370                               375                               380
1068 Gln Pro Gly Gln Lys Gln Gln Pro Gly Gln Gly Gln Gln Thr Gly Gln
1069 385                               390                               395                               400
1071 Gly Gln Gln Pro Glu Gln Glu Gln Gln Pro Gly Gln Gly Gln Gln Gly
1072                               405                               410                               415
1074 Tyr Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln Gly Gln Gln Gln Gly
1075                               420                               425                               430
1077 Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln
1078                               435                               440                               445
1080 Gly Gln Gln Gly His Tyr Pro Ala Ser Leu Gln Gln Pro Gly Gln Gly
1081                               450                               455                               460
1083 Gln Pro Gly Gln Arg Gln Gln Pro Gly Gln Gly Gln His Pro Glu Gln
1084 465                               470                               475                               480
1086 Gly Lys Gln Pro Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro
1087                               485                               490                               495
1089 Gln Gln Pro Gly Gln Gly Gln Gln Leu Gly Gln Gly Gln Gln Gly Tyr
1090                               500                               505                               510
1092 Tyr Pro Thr Ser Pro Gln Gln Pro Gly Gln Gly Gln Gln Pro Gly Gln
1093                               515                               520                               525
1095 Gly Gln Gln Gly His Cys Pro Thr Ser Pro Gln Gln Ser Gly Gln Ala
1096                               530                               535                               540
1098 Gln Gln Pro Gly Gln Gly Gln Gln Ile Gly Gln Val Gln Gln Pro Gly

```



## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005

TIME: 12:13:02

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05202005\J534742.raw

```

1099 545          550          555          560
1101 Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Val Gln Gln Pro Gly Gln
1102          565          570          575
1104 Gly Gln Gln Ser Gly Gln Gly Gln Gln Ser Gly Gln Gly His Gln Pro
1105          580          585          590
1107 Gly Gln Gly Gln Gln Ser Gly Gln Glu Gln Gln Gly Tyr Asp Ser Pro
1108          595          600          605
1110 Tyr His Val Ser Ala Glu Gln Gln Ala Ala Ser Pro Met Val Ala Lys
1111          610          615          620
1113 Ala Gln Gln Pro Ala Thr Gln Leu Pro Thr Val Cys Arg Met Glu Gly
1114 625          630          635          640
1116 Gly Asp Ala Leu Ser Ala Ser Gln
1117          645
1120 <210> SEQ ID NO: 8
1121 <211> LENGTH: 705
1122 <212> TYPE: PRT
1123 <213> ORGANISM: Wheat
1125 <223> OTHER INFORMATION: By9

```

*insert <220>*

E--&gt; 1127 &lt;400&gt; SEQUENCE: 8

```

1129 Met Ala Lys Arg Leu Val Leu Phe Ala Thr Val Val Ile Thr Leu Val
1130 1          5          10          15
1132 Ala Leu Thr Ala Ala Glu Gly Glu Ala Ser Arg Gln Leu Gln Cys Glu
1133          20          25          30
1135 Arg Glu Leu Gln Glu Ser Ser Leu Glu Ala Cys Arg Gln Val Val Asp
1136          35          40          45
1138 Gln Gln Leu Ala Gly Arg Leu Pro Trp Ser Thr Gly Leu Gln Met Arg
1139          50          55          60
1141 Cys Cys Gln Gln Leu Arg Asp Val Ser Ala Lys Cys Arg Pro Val Ala
1142 65          70          75          80
1144 Val Ser Gln Val Val Arg Gln Tyr Glu Gln Thr Val Val Pro Pro Lys
1145          85          90          95
1147 Gly Gly Ser Phe Tyr Pro Gly Glu Thr Thr Pro Leu Gln Gln Leu Gln
1148          100          105          110
1150 Gln Val Ile Phe Trp Gly Thr Ser Ser Gln Thr Val Gln Gly Tyr Tyr
1151          115          120          125
1153 Pro Ser Val Ser Ser Pro Gln Gln Gly Pro Tyr Tyr Pro Gly Gln Ala
1154          130          135          140
1156 Ser Pro Gln Gln Pro Gly Gln Gly Gln Gln Pro Gly Lys Trp Gln Glu
1157 145          150          155          160
1159 Leu Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Leu His Gln Ser
1160          165          170          175
1162 Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Ser Ser Leu Gln Gln Pro Gly
1163          180          185          190
1165 Gln Gly Gln Gln Ile Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser
1166          195          200          205
1168 Leu Gln Gln Pro Gly Gln Gly Gln Gln Ile Gly Gln Gly Gln Gln Gly
1169          210          215          220
1171 Tyr Tyr Pro Thr Ser Pro Gln His Pro Gly Gln Arg Gln Gln Pro Gly
1172 225          230          235          240

```

## RAW SEQUENCE LISTING

DATE: 05/20/2005

PATENT APPLICATION: US/10/534,742

TIME: 12:13:02

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05202005\J534742.raw

```

1174 Gln Gly Gln Gln Ile Gly Gln Gly Gln Gln Leu Gly Gln Gly Arg Gln
1175                245                250                255
1177 Ile Gly Gln Gly Gln Gln Ser Gly Gln Gly Gln Gln Gly Tyr Tyr Pro
1178                260                265                270
1180 Thr Ser Pro Gln Gln Leu Gly Gln Gly Gln Gln Pro Gly Gln Trp Gln
1181                275                280                285
1183 Gln Ser Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Gln Gln Gln
1184                290                295                300
1186 Pro Gly Gln Gly Gln Gln Gly Gln Tyr Pro Ala Ser Gln Gln Gln Pro
1187 305                310                315                320
1189 Gly Gln Gly Gln Gln Gly Gln Tyr Pro Ala Ser Gln Gln Gln Pro Gly
1190                325                330                335
1192 Gln Gly Gln Gln Gly Gln Tyr Pro Ala Ser Gln Gln Gln Pro Gly Gln
1193                340                345                350
1195 Gly Gln Gln Gly His Tyr Leu Ala Ser Gln Gln Gln Pro Gly Gln Gly
1196                355                360                365
1198 Gln Gln Arg His Tyr Pro Ala Ser Leu Gln Gln Pro Gly Gln Gly Gln
1199                370                375                380
1201 Gln Gly His Tyr Thr Ala Ser Leu Gln Gln Pro Gly Gln Gly Gln Gln
1202 385                390                395                400
1204 Gly His Tyr Pro Ala Ser Leu Gln Gln Val Gly Gln Gly Gln Gln Ile
1205                405                410                415
1207 Gly Gln Leu Gly Gln Arg Gln Gln Pro Gly Gln Gly Gln Gln Thr Arg
1208                420                425                430
1210 Gln Gly Gln Gln Leu Glu Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln
1211                435                440                445
1213 Thr Arg Gln Gly Gln Gln Leu Glu Gln Gly Gln Gln Pro Gly Gln Gly
1214                450                455                460
1216 Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Gly Gln
1217 465                470                475                480
1219 Gln Pro Gly Gln Ser Gln Gln Pro Gly Gln Gly Gln Gln Gly Tyr Tyr
1220                485                490                495
1222 Ser Ser Ser Leu Gln Gln Pro Gly Gln Gly Leu Gln Gly His Tyr Pro
1223                500                505                510
1225 Ala Ser Leu Gln Gln Pro Gly Gln Gly His Pro Gly Gln Arg Gln Gln
1226                515                520                525
1228 Pro Gly Gln Gly Gln Gln Pro Glu Gln Gly Gln Gln Pro Gly Gln Gly
1229                530                535                540
1231 Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Pro Gly Gln Gly Lys
1232 545                550                555                560
1234 Gln Leu Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln
1235                565                570                575
1237 Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Gly His Cys Pro
1238                580                585                590
1240 Thr Ser Pro Gln Gln Thr Gly Gln Ala Gln Gln Pro Gly Gln Gly Gln
1241                595                600                605
1243 Gln Ile Gly Gln Val Gln Gln Pro Gly Gln Gly Gln Gln Gly Tyr Tyr
1244                610                615                620
1246 Pro Ile Ser Leu Gln Gln Ser Gly Gln Gly Gln Gln Ser Gly Gln Gly

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005

TIME: 12:13:02

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05202005\J534742.raw

```

1247 625          630          635          640
1249 Gln Gln Ser Gly Gln Gly His Gln Leu Gly Gln Gly Gln Gln Ser Gly
1250          645          650          655
1252 Gln Glu Gln Gln Gly Tyr Asp Asn Pro Tyr His Val Asn Thr Glu Gln
1253          660          665          670
1255 Gln Thr Ala Ser Pro Lys Val Ala Lys Val Gln Gln Pro Ala Thr Gln
1256          675          680          685
1258 Leu Pro Ile Met Cys Arg Met Glu Gly Gly Asp Ala Leu Ser Ala Ser
1259          690          695          700
1261 Gln
1262 705
1265 <210> SEQ ID NO: 9
1266 <211> LENGTH: 602
1267 <212> TYPE: PRT
1268 <213> ORGANISM: Wheat
1270 <223> OTHER INFORMATION: glulA

```

E--&gt; 1272 &lt;400&gt; SEQUENCE: 9

```

1274 Met Ala Lys Arg Leu Val Leu Phe Ala Thr Val Val Ile Gly Leu Val
1275 1          5          10          15
1277 Ser Leu Thr Val Ala Glu Gly Glu Ala Ser Lys Gln Leu Gln Cys Glu
1278          20          25          30
1280 Arg Glu Leu Gln Glu Ser Ser Leu Glu Ala Cys Arg Leu Val Val Asp
1281          35          40          45
1283 Gln Gln Leu Ala Ser Arg Leu Pro Trp Ser Thr Gly Leu Gln Met Arg
1284          50          55          60
1286 Cys Cys Gln Gln Leu Arg Asp Ile Ser Ala Lys Cys Arg Pro Val Ala
1287 65          70          75          80
1289 Leu Ser Gln Val Ala Arg Gln Tyr Gly Gln Thr Ala Val Pro Pro Lys
1290          85          90          95
1292 Gly Gly Pro Phe Tyr His Arg Glu Thr Thr Pro Leu Gln Gln Leu Gln
1293          100          105          110
1295 Gln Gly Ile Phe Gly Gly Thr Ser Gln Thr Val Gln Gly Tyr Tyr
1296          115          120          125
1298 Pro Ser Val Ile Ser Pro Gln Gln Gly Ser Tyr Tyr Pro Gly Gln Ala
1299          130          135          140
1301 Ser Pro Gln Gln Pro Gly Lys Trp Gln Glu Leu Gly Gln Gly Gln Gln
1302 145          150          155          160
1304 Trp Tyr Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln Gly Gln Gln Gly
1305          165          170          175
1307 Tyr Tyr Arg Thr Ser Leu Gln Gln Pro Gly Gln Arg Gln Gln Gly Tyr
1308          180          185          190
1310 Tyr Arg Thr Ser Leu Gln Gln Pro Gly Gln Gly Gln Gln Ile Gly Gln
1311          195          200          205
1313 Trp Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln His Pro Gly Gln Gly
1314          210          215          220
1316 Gln Gln Pro Gly Gln Val Gln Lys Ile Gly Gln Gly Gln Gln Pro Glu
1317 225          230          235          240
1319 Lys Gly Gln Gln Leu Gly Gln Glu Gln Gln Ile Gly Gln Gly Gln Gln
1320          245          250          255

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005

TIME: 12:13:02

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05202005\J534742.raw

```

1322 Pro Glu Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly
1323           260           265           270
1325 Gln Gln Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln Gly Gln
1326           275           280           285
1328 Gln Pro Gly Gln Trp Gln Gln Pro Gly Gln Gly Gln Gln Gly Tyr Tyr
1329           290           295           300
1331 Pro Thr Ser Leu Gln Gln Pro Val Gln Gly Gln Gln Gly His Tyr Pro
1332 305           310           315           320
1334 Ala Ser Gln His Gln Pro Gly Gln Gly Gln Gln Gly His Gln Pro Ala
1335           325           330           335
1337 Ser Leu Gln Leu Ser Gly Gln Gly Gln Gln Gly His His Pro Ala Ser
1338           340           345           350
1340 Leu Gln Gln Pro Gly Gln Gly Lys Gln Thr Gly Gln Arg Glu Gln Arg
1341           355           360           365
1343 Gln Gln Pro Gly Gln Gly Gln Gln Thr Gly Gln Gly Gln Gln Pro Glu
1344           370           375           380
1346 Gln Glu Gln Gln Pro Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Tyr
1347 385           390           395           400
1349 Leu Gln Gln Pro Gly Gln Gly Gln Gln Pro Glu Gln Trp Gln Gln Pro
1350           405           410           415
1352 Gly Gln Gly Gln Gln Gly His Tyr Pro Ala Ser Leu Gln Gln Ser Gly
1353           420           425           430
1355 Gln Gly Gln Gln Gly His Tyr Pro Ala Ser Leu Gln Gln Leu Gly Gln
1356           435           440           445
1358 Gly Gln Pro Gly Gln Thr Gln Gln Pro Gly Gln Gly Gln Gln Pro Glu
1359           450           455           460
1361 Gln Glu Glu Gln Ser Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser
1362 465           470           475           480
1364 Pro Gln Gln Pro Gly Gln Gly Gln Gln Gly His Phe Pro Thr Ser Gly
1365           485           490           495
1367 Gln Ala Gln Gln Pro Gly Gln Gly Gln Gln Ile Gly Gln Ala Gln Gln
1368           500           505           510
1370 Leu Gly Gln Gly Gln Gln Gly Tyr Pro Thr Ser Leu Gln Gln Pro
1371           515           520           525
1373 Gly Gln Glu Gln Gln Ser Gly Gln Gly Gln Gln Leu Gly Gln Gly His
1374           530           535           540
1376 Gln Pro Gly Gln Gly Gln Gln Ser Gly Gln Glu Gln Gln Gly Tyr Asp
1377 545           550           555           560
1379 Ser Pro Tyr His Val Ser Val Glu Gln Gln Ala Ala Ser Pro Lys Val
1380           565           570           575
1382 Ala Lys Ala His His Pro Val Ala Gln Leu Pro Thr Met Cys Gln Met
1383           580           585           590
1385 Glu Gly Gly Asp Ala Leu Ser Ala Ser Gln
1386           595           600
1517 <210> SEQ ID NO: 11
1518 <211> LENGTH: 18
1519 <212> TYPE: PRT
1520 <213> ORGANISM: wheat
1522 <223> OTHER INFORMATION: preserved C-terminal motif

```

*insert <220>*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005

TIME: 12:13:02

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05202005\J534742.raw

E--&gt; 1524 &lt;400&gt; SEQUENCE: 11

1526 Leu Lys Val Ala Lys Ala Gln Gln Leu Ala Ala Gln Leu Pro Ala Met

1527 1 5 10 15

1529 Cys Arg

<210> 44  
 <211> 9  
 <212> PRT  
 <213> Artificial sequence

<220>  
 <221> misc\_feature  
 <222> 2  
 <223> Xaa is any residue

<220>  
 <223> Gln in position 4 is the amino acid to be mutated

<400> 44

Gln Xaa Pro Gln Gln Pro Gln Gln Phe  
 1 5

*This needs to be explained  
 in <220>-<223> section.  
 Give source of genetic material.*

same error in sequences 36 through 40,  
41-43

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005

TIME: 12:13:03

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05202005\J534742.raw

L:10 M:270 C: Current Application Number differs, Wrong Format  
L:30 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:1  
L:196 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:2  
L:359 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:3  
L:528 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:4  
L:697 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:5  
L:857 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:6  
L:994 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:7  
L:1127 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:8  
L:1272 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:9  
L:1524 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:11  
L:1637 M:283 W: Missing Blank Line separator, <220> field identifier  
L:2062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0